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1 Applications in logistics, transportation, and distribution: Simulation applications in the ⬛ automotive industry: simulation anywhere any time: web-based simulation implementation for evaluating order-to-delivery systems and processes
Soundar R. T. Kumara, Yong-Han Lee, Kaizhi Tang, Chad Dodd, Jeffrey Tew, Shang-Tae Yee
December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**
Publisher: Winter Simulation Conference
Full text available: ▦ pdf(255.67 KB)   Additional Information: full citation, abstract, references

> GM Enterprise Systems Laboratory (GMESL) has developed a stand-alone single user simulation program for evaluating and predicting Order-to-Delivery (OTD) systems and processes. In order for more people to be able to access this simulator, to share the simulation results, and to analyze simulation collaboratively, we have designed, developed and implemented an Internet-based three-tiered client/server framework, which consists of the three tiers: database, execution and user interface. The cor ...

2 Network and service management for wide-area electronic commerce networks ⬛
Symeon Papavassiliou
March 2001 **International Journal of Network Management**, Volume 11 Issue 2
Publisher: John Wiley & Sons, Inc.
Full text available: ▦ pdf(416.91 KB)   Additional Information: full citation, abstract, references, index terms

> This paper focuses on the effective management of wide‐area electronic commerce networks supporting services and applications that require high availability and reliability as well as fast reconstitution time, in the event of failures. Copyright © 2001 John Wiley & Sons, Ltd.

3 Broadcast and on-line cultural heritage: Copyright protection and management and a ⬛ web based library for digital images of the Hellenic cultural heritage
Dimitris K. Tsolis, George K. Tsolis, Emmanouil G. Karatzas, Theodore S. Papatheodorou
November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**
Publisher: ACM Press
Full text available: ▦ pdf(358.69 KB)   Additional Information: full citation, abstract, references, index terms

> The main issue addressed in this paper is the design and implementation of an Advanced Digital Image Repository, which offers specialized services and a Dedicated User Interface

for the protection and management of the Intellectual Property Rights of digitized material. In addition, another main research area of this contribution is the implementation of a Web Based Library, supported by advanced technologies, for the proper presentation of the digital cultural content. The work described in thi ...

Keywords: copyright protection, databases, digital web archives, information systems, java applets, watermarking

4   A cost effective distributed location management strategy for wireless networks
Kuochen Wang, Jung Huey
July 1999 **Wireless Networks**, Volume 5 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: .pdf(190.47 KB)   Additional Information: full citation, abstract, references, index terms

The mobility feature of mobile stations (MSs) imposes a large burden on network traffic control as a result of location management. Design issues of location management include MS registration (updating) and call set-up (paging). Previous approaches introduced several network topologies for updating and paging procedures, but most of them focused on a single problem: either updating optimization or paging optimization. In this paper, we design and integrate two mechanisms, distributed tempo ...

5   Mariposa: a wide-area distributed database system
Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, Andrew Yu
January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: .pdf(172.75 KB)   Additional Information: full citation, abstract, citings, index terms

The requirements of wide-area distributed database systems differ dramatically from those of local-area network systems. In a wide-area network (WAN) configuration, individual sites usually report to different system administrators, have different access and charging algorithms, install site-specific data type extensions, and have different constraints on servicing remote requests. Typical of the last point are production transaction environments, which are fully engaged during normal business h ...

Keywords: Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area network

6   A PilotCard-based shared hypermedia system supporting shared and private databases
Satoshi Ichimura, Takeshi Kamita, Yutaka Matsushita
December 1993 **Proceedings of the conference on Organizational computing systems**
Publisher: ACM Press
Full text available: .pdf(953.42 KB)   Additional Information: full citation, references, citings, index terms

Keywords: groupware, hypermedia, object-oriented database

7   Electronic commerce universal access device-the knowledge-acquiring layered infrastructure (KALI) project
Theodore Chiasson, Carrie Gates

September 2000 **Crossroads**, Volume 7 Issue 1
Publisher: ACM Press
Full text available: ⚙ html(35.92 KB)   Additional Information: full citation, index terms

8 A distributed scientific data archive using the Web, XML and SQL/MED

Mark Papiani, Jasmin L. Wason, Alistair N. Dunlop, Denis A. Nicole
September 1999 **ACM SIGMOD Record**, Volume 28 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(794.86 KB)   Additional Information: full citation, abstract, citings, index terms

> We have developed a web-based architecture and user interface for fast storage, searching and retrieval of large, distributed, files resulting from scientific simulations. We demonstrate that the new DATALINK type defined in the draft SQL Management of External Data Standard can help to overcome problems associated with limited bandwidth when trying to archive large files using the web. We also show that separating the user interface specification from the user interface processing can prov ...

9 Implementing role based access control for federated information systems on the web

Kerry Taylor, James Murty
January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**
Publisher: Australian Computer Society, Inc.
Full text available: 📄 pdf(217.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

> There is rapidly increasing interest in Australia in on-line sharing of information stored in corporate databases, especially within and between staff of independent government agencies. Biological collections databases and population health GIS are good examples of the frequent situation where database custodians are looking for dynamic, distributed, heterogenous federated information system models for information sharing within loosely constituted communities. This paper describes a security m ...

Keywords: RBAC, federated databases

10 Processing read-only transactions in hybrid data delivery environments with consistency and currency guarantees

André Seifert, Marc H. Scholl
August 2003 **Mobile Networks and Applications**, Volume 8 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(285.73 KB)   Additional Information: full citation, abstract, references, index terms

> Different isolation levels are required to ensure various degrees of data consistency and currency to read-only transactions. Current definitions of isolation levels such as Conflict Serializability, Update Serializability or External Consistency/Update Consistency are not appropriate for processing read-only transactions since they lack any currency guarantees. To resolve this problem, we propose four new isolation levels which incorporate data consistency and currency guarantees. Further, we p ...

Keywords: broadcasting, data consistency, data currency, read-only transactions, unicasting

11

C++: monitoring remote sensing devices in C++
G. Bowden Wise
April 1997 **ACM SIGPLAN Notices**, Volume 32 Issue 4
Publisher: ACM Press
Full text available: pdf(355.01 KB)   Additional Information: full citation, index terms

12 Supporting collaborative writing of hyperdocuments in SEPIA
Jörg M. Haake, Brian Wilson
December 1992 **Proceedings of the 1992 ACM conference on Computer-supported
cooperative work**
Publisher: ACM Press
Full text available: pdf(1.13 MB)   Additional Information: full citation, references, citings, index terms

Keywords: CSCW, collaborative writing, hypertext, hypertext authoring, modes of
collaboration

13 Database research at IPSI
Erich Neuhold, Volker Turau
March 1992 **ACM SIGMOD Record**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: pdf(617.85 KB)   Additional Information: full citation, abstract, citings, index terms

At the Integrated Publication and Information Systems Institute (IPSI) of the GMD
(Gesellschaft für Mathematik und Datenverarbeitung) database research is focused
towards distributed database management systems to support the integration of
heterogeneous multi-media information bases needed in an integrated publishing
environment. The objective is to investigate advanced object-oriented and active data
modelling concepts together with the principles of distributed data stores and data ...

14 Developing the cooperative mission development environment
Christopher Rouff, Mary Ann Robbert
November 1997 **Proceedings of the international ACM SIGGROUP conference on
Supporting group work: the integration challenge**
Publisher: ACM Press
Full text available: pdf(857.91 KB)   Additional Information: full citation, references, index terms

Keywords: client/server, integrating databases, islands of computing, middleware

15 Testing and debugging: Using Hy$^+$ for network management and distributed
debugging
Mariano P. Consens, Masum Z. Hasan, Alberto O. Mendelzon
October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies
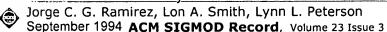on Collaborative research: software engineering - Volume 1**
Publisher: IBM Press
Full text available: pdf(1.68 MB)   Additional Information: full citation, abstract, references

A network manager managing a computer network or a programmer attempting to
understand and debug a distributed program both must deal with large volumes of data.
Visualization is widely believed to help in these and similar tasks. We contend that

visualization is indeed useful, but only if accompanied of the following facilities: abstraction, filtering, and layout control. The **Hy⁺** visualization system and GraphLog query language provide these facilities. They support not ...

16 Medical information systems: characterization and challenges

Jorge C. G. Ramirez, Lon A. Smith, Lynn L. Peterson
September 1994 **ACM SIGMOD Record**, Volume 23 Issue 3

Publisher: ACM Press

Full text available: pdf(1.10 MB)   . Additional Information: full citation, abstract, index terms

This paper examines the characteristics and challenges presented by medical databases and medical information systems. It begins with a survey of medical databases/information systems. This is followed by a list of challenges for database management systems generated by the needs of these systems. It concludes with a look at some systems which address these challenges. In the context of this background information, the database community is asked to consider whether the results of database ...

17 REQUEST II — a distributed database system for local area networks

Marek Rusinkiewicz, Dimitrios Georgakopoulos
November 1986 **Proceedings of 1986 ACM Fall joint computer conference**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.02 MB)   Additional Information: full citation, references, index terms

18 Data allocation in distributed database systems

Peter M. G. Apers
September 1988 **ACM Transactions on Database Systems (TODS)**, Volume 13 Issue 3

Publisher: ACM Press

Full text available: pdf(3.30 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The problem of allocating the data of a database to the sites of a communication network is investigated. This problem deviates from the well-known file allocation problem in several aspects. First, the objects to be allocated are not known a priori; second, these objects are accessed by schedules that contain transmissions between objects to produce the result. A model that makes it possible to compare the cost of allocations is presented; the cost can be computed for different cost functi ...

19 The peril of evaluating location management proposals through simulations

Thomas Kunz, Atif A. Siddiqi, John Scourias
November 2001 **Wireless Networks**, Volume 7 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: pdf(184.81 KB)   Additional Information: full citation, abstract, references, index terms

The challenge of supporting rapidly growing numbers of mobile users, while constrained by limited radio spectrum, is being faced by cellular network operators worldwide. Several location management schemes have been proposed to improve the performance of such networks, but a fair assessment and comparison of their performance is difficult without an accurate mobility model. The performance of location management schemes depends considerably on subscriber mobility patterns. Some of the recent met ...

Keywords: cellular networks, location management, mobility models, performance evaluation

20 The peril of evaluating location management proposals through simulations

Atif A. Siddiqi, Thomas Kunz

August 1999 **Proceedings of the 3rd international workshop on Discrete algorithms and methods for mobile computing and communications**

Publisher: ACM Press

Full text available: .pdf(830.95 KB)   Additional Information: full citation, references, citings, index terms

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